

# Proposed Amendments to the Distributed Generation Certification Regulation

July 6, 2006  
Public Workshop  
Sacramento, California



California Environmental Protection Agency  
Air Resources Board

## Presentation Outline

- Background of ARB's Distributed Generation (DG) Program
- Proposed Amendments to DG Certification Regulation
- Next Steps

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## Background of Distributed Generation Program

- Program mandated by state law
- After January 1, 2003, every DG unit either permitted by district or certified by ARB
- ARB to adopt DG certification program
- ARB to provide guidance to districts for permitting electrical generation technologies

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## DG Certification Regulation

- Adopted by the Board in November 2001
- Applies to manufacturers of DG technologies not subject to district rules (e.g. fuel cells and microturbines)
- Includes emission standards, testing, labeling, and other requirements for certification

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## DG Certification Regulation (cont.)

- Two sets of emission standards
  - Near term standards reflected existing clean DG limits
  - Longer term emission standards reflected central station power plant BACT

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## Emission Standards (lb/MW-hr)

Year		NOx	VOC	CO
2003	w/o CHP	0.5	1.0	6.0
	with CHP	0.7	1.0	6.0
2007*		0.07	0.02	0.10

\*Standard allows for a CHP credit of 1 MW-hr for every 3.4 million BTUs of recovered heat if unit meets minimum 60 percent efficiency

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## Certified Equipment

2003 Standards  
➢ 4 microturbines

2007 Standards  
➢ 5 fuel cells  
➢ 1 microturbine

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## Technical Review Requirement

- Evaluate 2007 Standards
- Evaluate CHP Benefit
- Evaluate Testing Procedures
- Evaluate Emissions Durability

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## 2007 Standards/ CHP Benefit

- No changes proposed to 2007 Standard or CHP credit

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## Proposed Amendments to Certification Regulation

- Adding standards for waste gas
- Modifying some testing requirements
- Modifying recordkeeping, fee and recertification requirements
- Other editorial and clarification changes

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## Proposed Waste Gas Standards

- Would apply to landfill gas, digester gas, oil field waste gas
- 2008 emission standards
  - Identical to current 2003 standards
- 2013 emission standards
  - Identical to current 2007 standards

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## Proposed Changes to Testing Requirements

- Adding VOC test method
- 100 percent load testing only
- Eliminating NOx testing of all units prior to commercial operation
- Other minor changes

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## Other Proposed Changes

- Recordkeeping
- Recertification
- Fees
- Other minor changes

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## Next Steps

- Staff will develop final proposed amendments based on comments from today's meeting
- Proposed amendments available for public review on September 1, 2006
- Staff will present proposal to Board for adoption on October 19, 2006

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## Additional Information

### Website:

<http://www.arb.ca.gov/energy/dg/dg.htm>

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